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S56	0	((biolog$5 or biomolecul$5) same (displa$3 or view$4) same (text and noun and verb)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/09/27 11:34
S57	0	((biolog$5 or biomolecul$5) same (displa$3 or view$4) same (text and noun and verb and interact$5)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/09/27 11:41
S58	37858	"707".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/09/27 11:41
S61	3	S58 and ((biolog$5 or biomolecul$5) same (displa$3 or view$4)) and interact$5 and text mining and (biolo$6 near4 diagram$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/09/27 11:46
S62	0	S58 and ((biolog$5 or biomolecul$5) same (displa$3 or view$4)) and interact$5 and text mining and (biolo$6 near4 diagram$3) and (noun and verb).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/09/27 11:49

Terms used **biological** **diagram** and **mining** and **viewer**

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1 Bioinformatics (BIO): An architecture for biological information extraction and representation

Aditya Vailaya, Peter Bluvas, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(355.71 KB) Additional Information: full citation, abstract, references

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

2 Terminology-based knowledge mining for new knowledge discovery

Hideki Mima, Sophia Ananiadou, Katsumori Matsushima

March 2006 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

In this article we present an integrated knowledge-mining system for the domain of biomedicine, in which automatic term recognition, term clustering, information retrieval, and visualization are combined. The primary objective of this system is to facilitate knowledge acquisition from documents and aid knowledge discovery through terminology-based similarity calculation and visualization of automatically structured knowledge. This system also supports the integration of different types of databa ...

Keywords: Automatic term recognition, biomedicine, natural language processing, structuring knowledge, terminology, visualization

3 Research track posters: Visual data mining using principled projection algorithms and information visualization techniques

Dharmesh M. Maniyar, Ian T. Nabney

August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**

Publisher: ACM Press
Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, index terms

We introduce a flexible visual data mining framework which combines advanced projection algorithms from the machine learning domain and visual techniques developed in the information visualization domain. The advantage of such an interface is that the user is directly involved in the data mining process. We integrate principled projection algorithms, such as generative topographic mapping (GTM) and hierarchical GTM (HGTM), with powerful visual techniques, such as magnification factors, direction ...

Keywords: information visualization techniques, probabilistic projection algorithms, visual data mining

4 Keynote address: Visualization challenges for a new cyberpharmaceutical computing paradigm

Russell J. Turner, Kabir Chaturvedi, Nathan J. Edwards, Daniel Fasulo, Aaron L. Halpern, Daniel H. Huson, Oliver Kohlbacher, Jason R. Miller, Knut Reinert, Karin A. Remington, Russell Schwartz, Brian Walenz, Shibu Yooseph, Sorin Istrail

October 2001 **Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics**
Publisher: IEEE Press
Full text available: pdf(3.07 MB) Additional Information: full citation, abstract, references, index terms

In recent years, an explosion in data has been profoundly changing the field of biology and creating the need for new areas of expertise, particularly in the handling of data. One vital area that has so far received insufficient attention is how to communicate the large quantities of diverse and complex information that is being generated. Celera has encountered a number of visualization problems in the course of developing tools for bioinformatics research, applying them to our data generation ...

5 Computational Approaches to Image Understanding

Michael Brady

March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(10.04 MB) Additional Information: full citation, references, citings, index terms

6 Research track papers: Fast mining of high dimensional expressive contrast patterns using zero-suppressed binary decision diagrams

Elsa Loekito, James Bailey

August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**
Publisher: ACM Press
Full text available: pdf(846.67 KB) Additional Information: full citation, abstract, references, index terms

Patterns of contrast are a very important way of comparing multi-dimensional datasets. Such patterns are able to capture regions of high difference between two classes of data, and are useful for human experts and the construction of classifiers. However, mining such patterns is particularly challenging when the number of dimensions is large. This paper describes a new technique for mining several varieties of contrast pattern, based on the use of Zero-Suppressed Binary Decision Diagrams (ZBDDs) ...

Keywords: contrast patterns, disjunctive emerging patterns, zero-suppressed binary decision diagrams

7 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004